•		(	0	K P ar ?	; 30°	as is	33					Shee	t_	1	of _	5			
FORM F	PTO-14	49	132	U.S.	DEP	ARS	TR	NT (	OF COMMERCE	AT	TY. DOCKET NO.	SERIAL	NO						
			VQ	PAT	100		•••			0	RT1502-CON	10/66	1,3	378					
INFORMATION DISCLOSURE											APPLICANT Dubin et al.								
		(Use	sevei	rai sh	eets	if nec	cess	aŋ	<i>(</i> )		ING DATE eptember 12, 2003	GROUP	AR	TUNIT	1649				
-									U.S. PA	TEI	NT DOCUMENTS			_					
EXAMII INITI			D	OCUN	MENT	r NUN	ABE	R	DATE		INVENTORS	CLASS	su	BCLASS		ING DATE PROPRIATE			
						$\prod$													
										PAT	TENT DOCUMENTS				<del>, - , - , -</del>				
			D	OCUN	MENT	r NUN	/BE	R	DATE		COUNTRY/REGION	CLASS				NSLATION applicable)			
						$\prod$													
		ОТ	HEI	R D	OCI	UMI	EN	T	S (Includin	g A	Author, Title, Date, Pe	ertinent	P	ages, E	Etc.)				
K.Z	Barnard, "The Transmitte							nac	col. Sci., Vol.	Gated Channels: A Range Of Receptor Types And Structures," I. 17, pp. 305-309 (1996).									
											tional Expression Of A armacol., Vol. 48, pp. 10				tryptar	nine Type-			
				Boess et al., "Analysis Of The Ligand Binding Site Of The 5-HT <sub>3</sub> Receptor Using Site Directed Mutagenesis: Importance Of Glutamate 106," <i>Neuropharm.</i> , Vol. 36, pp. 637-647 (1997).															
				Bufton et al., "Distribution And Characterization Of The [ <sup>3</sup> H]Granisetron-Labelled 5-HT Receptor In The Human Forebrain," <i>Neuropharm.</i> , Vol. 32(12), pp. 1325-1331 (1993).											993).				
				Davies et al., "The 5-HT <sub>3-8</sub> Subunit Is A Major Determinant Of Serotonin-Receptor Function", <i>Nature (London)</i> , Vol. 397, pp. 359-363 (1999).															
				pp.	708	<b>3-70</b>	9 (	19	89).		s Are Membrane Ion Ch								
				Hor	mon	nerio	c C	on	nplexes?" <i>Tr</i> e	end	Seeking Subunits: Are Is Pharmacol. Sci., Vol.	19, pp. 2	212	-215 (1	998).				
	,								'Purification ( /ol. 122, pp. (		5-Hydroxytryptamine- <sub>3</sub> F i-662 (1997).	Recepto	rs i	From Po	orcine	Brain", <i>Br.</i>			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

KAB EXAMINER Acetylcholine Receptor Subunits", Neuropharm., Vol. 37, pp. 397-399 (1998).

Fletcher et al., "Evidence That Porcine Native 5-HT<sub>3</sub> Receptors Do Not Contain Nicotinic

						•		Shee	t <u>          2                          </u>	_ of5				
FORM PTO-14	19					OF COMMERCE EMARK OFFICE	ORT1502-CON	SERIAL NO. 10/661,378						
	ORMAT						APPLICANT Dubin et al.							
	(Use seve					y)	FILING DATE GROUP ART UNIT 1649 12 September 2003							
						U.S. PA	TENT DOCUMENTS							
EXAMINER INITIAL	D	OCUM	ENT	NUMB	ER	DATE	INVENTORS	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE				
							PATENT DOCUMENTS	· 10: 100	Taunai saa	T = 0.4401 4.7401				
		OCUM	ENT	NUMB	ER	DATE	COUNTRY/REGION	CLASS	SUBCLASS	TRANSLATION (if applicable)				
	<del></del>	+	+		╁			+	<del> </del>					
	OTHE	P DC		MEI	NT	S (Includin	g Author, Title, Date, P	ertinen	t Pages. E	tc.)				
KAB		Defe Circ Gra Gre Clin Gur Rec (199 Hug Proj (199 Jan Vol.	ective ulatification in the perturbation in th	e Pion, \ "Antinaw Pharet all ors E et al. es T	rote /ol. em et rma l., ' Exp ow Vol pp	ein Traffickir 99, pp. 2290 etic Therapy, al., "The Non cology and T "Nicotinic Ag ressed In X "Kv8.1, A New rards Shab A stage-Gated / 267-282 (199		p. 577-5 otonin 5 Orugs, V gonize 5 coi. Lette annel Su BO J.,	83 (1998). HT <sub>3</sub> Receptol. 53(1), pers, Vol. 24 bunit with Seven 15(13)	otor Antagonists: p. 20-39 (1997). At Mouse 5-HT <sub>3</sub> 47, pp. 107-110 Specific Inhibitory p. 3322-3331 p. J. Physiology,				
Lambert et al., "5-HT3 Receptors" In Ligand- Voltage-Gated Ion Channels, (R. N. CRC Press - Boca Raton, FI), Chp. 5, pp. 177-211 (1995).  Lummis et al., "Radioligand Binding And Photoaffinity Labeling Studies Show Interaction Of Phenothiazines At 5-HT3 Receptors," Neuropharm., Vol. 36(4/5) 670 (1997).  Lummis et al., "Solubilization, Purification, And Functional Reconstitution Hydroxytryptamine3 Receptors From N1E-115 Neuroblastoma Cells," Mol. F. Vol. 41, pp. 18-23 (1992).														
		Lum Red (199	nmis epto 93).	et ors l	al., n I	"Characteriz N1E-115 Net	zation Of [ <sup>3</sup> H]Meta-chloro uroblastoma Cells," <i>Eur.</i> ucture And Functional Ex	J. Phan	nacol., Vo	l. 243, pp. 7-11				
EXAMINER		Ser	oton	in-G	ate	d Ion Channe	DATE CONSIDERED	D. C.), Vo	ol. 254, pp.	432-437 (1991).				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

								She	et3	_ of5_					
FORM PTO-14	49					OF COMMERCE	ATTY. DOCKET NO.	SERIAL	SERIAL NO.						
		7.01	LIVI	A110 1	· • •	JEIIIAKK OFFICE	ORT1502-CON	10/66	1,378						
	ORMAT			_			APPLICANT Dubin et al.								
Cl	TATIO						FILING DATE	TCBOUR	ART UNIT 1						
	(Use sev	erai sn	100E	IT NOCE	ssa	ry)	12 September 2003	GROUP	ARIUNII 1	649					
			-			U.S. PA	TENT DOCUMENTS								
EXAMINER INITIAL		DOCUN	MENT	NUME	BER	DATE	INVENTORS	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
			Γ		Τ										
			4	$\bot\bot$	1			ļ	<b> </b>						
				<u>i l</u>		FORFIGN I	PATENT DOCUMENTS	l	<u>i</u>						
		DOCUN	MENT	NUME	BER		COUNTRY/REGION	CLASS	SUBCLASS	TRANSLATION (if applicable)					
				$\coprod$	$\perp$				<u> </u>	<u></u>					
	OTHE	ER D	<u>oc</u>	UME	NΤ	S (Includin	g Author, Title, Date, Pe	rtinen	t Pages, E	tc.)					
KAB	ŀ	Mathur et al., "Ile-177 And Ser-180 In The S1 Segment Are Critically Important In Kv1.1													
		Channel Function," <i>J. Biol. Chem.</i> , Vol. 274(17), pp. 11487-11493 (1999).  Mikayama et al., "Molecular Cloning And Functional Expression Of A cDNA Encoding													
1	1	Glycosylation-Inhibiting Factor," <i>Proc.Natl. Acad. Sci. USA</i> , Vol. 90, pp.10056-10060													
		(1993).													
		Miller et al., "Membrane-Bound And Solubilized Brain 5HT <sub>3</sub> Receptors: Improved													
	·	Radioligand Binding Assays Using Bovine Area Postrema Or Rat Cortex And The													
		Radioligands <sup>3</sup> H-GR65630, <sup>3</sup> H-BRL43694, And <sup>3</sup> H-LY278584," <i>Synapse (NY)</i> , Vol. 11, pp. 58.66 (1992)													
<del></del>		58-66 (1992).  Miyake et al., "Molecular Cloning of Human 5-Hydroxytryptamine₃ Receptor: Heterogeneity													
	!	In Distribution And Function Among Species," <i>Mol. Pharmacol.</i> , Vol. 48, pp. 407-416 (1995).													
		Pas	ssar	ni et a	al.,	"Therapeutic	Potentials of Itasetron (DA	U 6215	), A Novel	5-HT <sub>3</sub> Recep					
						The Treatmen (1996).	nt Of Central Nervous Syste	m Diso	rders," CNS	S Drug Rev., V					
<del></del>	Character	ization of 5-h													
		Red	cept	ors."	Tn	ends Pharmad	col. Sci., Vol. 13, pp. 391-39	7 (1992	2).						
		Sal	linas	et a	l., "	Modes of Reg	gulation Of Shab K* Channe	l Activit	y By The K	v8.1 Subunit,					
$\downarrow \downarrow \downarrow$		Ch	em	Vol.	27	2(39), pp. 243	atory $\alpha$ Subunits For Mamn 371-24379 (1997).								
KAB		Sha	alab	y et	al.,	"Dominant-N	egative KvLQT1 Mutations	Underli	e The LQT	1 Form Of Lo					
EXAMINER		<u> QT</u>	Syr	ndron	ne,	Circulation ,	Vol. 96(6), pp. 1733-1736 (1997).								
CAMINER	_														
EXAMINER through cit	: Initial	if cit	atio	n cor	sic	dered, whethe	r or not citation is in confensioned. Include copy of the	ormance nis form	with MPE with next o	P 609; Draw I communication					

applicant.

								She	et4	_ 01					
FORM PTO-1449							ATTY. DOCKET NO.	SERIAL	ERIAL NO.						
		PATE	NI A	אז טא	AUI	EMARK OFFICE	ORT1502-CON	10/66	1.378						
INFO	RMAT	ION I	nie	CI O	CI.	IDE	APPLICANT	150.55							
****	ATION						Dubin et al.								
	lse seve						FILING DATE	GROUP	ART UNIT 1	649					
							12 September 2003								
						U.S. PA	TENT DOCUMENTS	<b>.</b>							
EXAMINER INITIAL	D	OCUM	ENT I	NUMBI	ER	DATE	INVENTORS	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
		<del>                                     </del>													
			$\prod$												
							PATENT DOCUMEN		<b></b>						
	D	OCUM	ENT	NUMBI	ER	DATE	COUNTRY/REGIO	N CLASS	SUBCLASS	TRANSLATION (if applicable)					
		$\sqcup \!\!\!\!\! \perp$	$\sqcup$		<u> </u>				ļ						
		<u> </u>	Щ		<u>L</u>				1 Danie - E	24- 3					
(	OTHE	R DC	CU	MEN	1T	S (Includin	g Author, Title, Dat	e, Pertinen	t Pages, E	tc.)					
KAB		Shuck et al., "Cloning And Characterization Of Two K* Inward Rectifier (K <sub>Ir</sub> ) 1.1 Potassium Channel Homologs From Human Kidney (K <sub>Ir</sub> 1.2 and K <sub>Ir</sub> 1.3)," J. Biological Chem., Vol.													
KAB							uman Kloney (Kirl.2	and N <sub>ir</sub> 1.3),	J. Biolog	icai Chem., voi.					
		272(1), pp. 586-593 (1997).   Steward et al., "Labeling of 5-HT <sub>3</sub> Receptor Recognition Sites In The Rat Brain													
ŀ	ŀ	Ago	vaiu nist	Radi	u, Olic	and [3H]Met	a-chlorophenylbiguani	de," Eur. J. I	Pharmacol.,	Vol. 243, pp.13-					
	1	118 (	1993	3).											
		Stoc	ker	et al	., "	Subunit Ass	embly And Domain A	nalysis Of El	ectrically S	ilent K* Channel					
I 1				Subu	nite	s Of The Ra	at Kv9 Subfamily," J.	Neurochem	., Vol. 72(4	), pp.1725-1734					
		(199	99).						-:44 A4 E I	JT Bosonters In					
i							tamine Is A Fast Exci		nitter At 5-i	113 Keceptors III					
		Kat	Amy	ygoai	<u>а,</u>	ntibodies Ac	l. 8, pp. 199-203 (1992 ainst The 5-HT₃-A Re	centor Identi	f <sub>V</sub> Δ 54 kDs	Protein Affinity-					
		Puri	on t fied	Fron	N	CB20 Cells "	Mol. Neuropharmaco	Vol. 3. pp.	167-171 (1	993).					
		Van	Ho	oft et	al.	. "Phosphon	lation Controls Condu	ctance of 5-	HT <sub>3</sub> Recept	tor Ligand-Gated					
	İ	Van Hooft et al., "Phosphorylation Controls Conductance of 5-HT <sub>3</sub> Receptor Ligand-Gat- Ion Channels," <i>Recept. Channels</i> , Vol. 3, pp. 7-12 (1995).													
		Voe	t et	al., "[	310	chemistry," J	ohn Wiley & Sons, Inc	., pp.126-129	and pp. 22	28-234 (1990).					
	i i	Wae	eber	et a	al.,	"5-HT3 Rec	eptors In The Humar	n Brain: Au	toradiograp	hic Visualization					
	_	Usir	ng [³	НІС	<u>S 2</u>	05-930," Neu	uroscience, Vol. 31(2),	pp. 393-400	(1989).	A Dat Office					
	- 1	Yak	el e	t al.,	."/	Activation Ar	d Desensitization Of	The 5-HT <sub>3</sub> F	Receptor in	A Rat Glioma X					
_ <del>V</del>		Mor	ıse I	Neur		astoma Hybr	id Cell," J. Physiol. (Lo	Attor Boton	sium Chan	nel Function Pu					
<b>7</b> 35		Zerr	r et	al.,	Ft	DISODIC ATAXI	a Mutations in Kv1.1 Or Haploinsufficiency,	Ailer Polas	ience Vol	18/8) nn 2842-					
KAB				nt Ne 998).		MAG FUECIS	or riapionisumolency,	J. INGUIUSC	101100, 401.	(-), pp. 20-12-					
EXAMINER		1204	<u> </u>	<i>550)</i> .	_		DATE CONSIDERED			<del></del>					
<b>EXAMINER:</b>	Initial	if cita	ition	con	sid	ered, whethe	r or not citation is in	conformanc	e with MPE	P 609; Draw line					

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

													She	et	_5	of _		5	
FORM PTO-1							F COMMERCE	AT	TY. DOC	CET NO.	<del> </del>	SERIAL							
										RT1502			10/66	1,378	<del>-</del>			- <b>-</b>	
	ORM				_		_		1	PLICANT Ibin et									
(Use several sheets if necessary)										ING DAT	E mber 20	103	GROUP	ART L	INIT 1	549			
								U.S. PA	TEN	NT DO	CUME	NTS	<u> </u>						
EXAMINER INITIAL DOCUMENT NUMBER DATE											INVENTO	)RS	CLASS	SUBCLASS IF APPI		NG DA			
					T	T	Ī												
							F	<b>OREIGN</b>	PAI										
		DO	OCUMI	ENT N	UMI	BER	$\perp$	DATE			UNTRY/RI	EGION	CLASS SUBCLASS			TRANSLATION (if applicable)			
KAB	wo	0		1 7	4	<u> </u>	_	30 Nov. 200				_							
KAB	wo							10 Jan. 2002				•							
	OTI	<del>1</del> EF	R DC	CUI	ИE	N	ΓS	(Includin	g A	uthor	, Title,	Date, Pe	ertinen	t Pag	jes, E	tc.)			
KAB	Dubin et al., "The Pharmacological And Functional Characteristics Of The Serotonin 5-H Receptor Are Specifically Modified By A 5-HT <sub>3B</sub> Receptor Subunit," <i>J. Bio. Chem.</i> , V 274(43), pp. 30799-30810 (1999).													Vol.					
KAB	j		Miqu HT₃ (199	Rec	al ept	l., " tor	De Sp	velopmenta olice Varian	al C nts	hange: In The	In the Rat,"	Differenti  J. Neuroc	al Expre hemistr	ession y, Vo	n Of T ol. 65(	wo Se 2), pp	roton . 475	in 5- i-483	
									•										
EXAMINER /Kimberly Ballard/										TE CONS	IDERED	04/20/	/2006						
EXAMINEI through capplicant.	itation	al if	citat ot in	tion ( confo	orm	nsio	der	ed, whether and not cor	r or nsid	not ci	tation is nclude (	in confo	ormance is form	with with	MPE next c	P 609; ommu	Draw nicati	line on to	